

KHIL'KO, N. I.

5  
RmL

Chemical Abat.  
Vol. 48 No. 6  
Apr. 25, 1956  
Electrochemistry

Disintegration of the particles generating nuclear-electronic showers. R. A. Arinov, V. P. Vahneval, and N. I. Khil'ko. Doklady Akad. Nauk S.S.S.R. 18, 231-4 (1956) (Engl. transl. 47, 16371d). — Determination of absorption coeff. in water and air of the particles generating nuclear-electronic showers were made in the lake Shor-Kol (3000 m.) and Osh (900 m.). Coincident signals from 4 or 5 groups of counters were registered. The trays of counters were enclosed in 8-cm. Pb blocks. They were lowered into various depths in the lake in an Pb barrel. It was shown that only nuclear electronic showers generated in Pb were registered. The registration of  $\gamma$ -showers was practically excluded. The random coincidences were very rare. The absorption coeff. for  $H_2O$  (1)  $1/\mu_{H_2O} = 170 \pm 10$  g./sq.cm. The absorption coeff. for air (2)  $1/\mu_{air} = 123 \pm 8$  g./sq.cm. The difference between (1) and (2) means that at least some of the particles generating nuclear-electronic showers disintegrate in the air. The unstable generating particles do not disintegrate in a dense medium and are therefore absorbed more slowly. These particles are most probably  $\pi$ -mesons. The estimate of the av. no. of  $\pi$ -mesons formed during the generation of the observable nuclear-electronic showers can be called from  $\mu_{H_2O} = \mu_{H_2O}(1 - \alpha)$ , where  $\alpha$  = no. of the secondary nuclear-active particles formed in one act.  $\alpha \sim 0.3$  = no. of  $\pi$ -mesons having max. energy and capable of generating secondary nuclear-electronic showers.

SOV/137-58-9-20219

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 299 (USSR)

AUTHORS: Yakobson, I.I., Shirokiy, P.L., Khil'ko, N.I., Chubarov, L.B.

TITLE: Technical Quality Control With Gamma Rays From Radioactive Cobalt  $\text{Co}^{60}$  (Tekhnicheskiy kontrol' gamma-luchami radio-aktivnogo kopal'ta  $\text{Co}^{60}$ )

PERIODICAL: Sb. nauchn. tr. Tashkentsk. in-t inzh. zh.-d. transp., 1957, Nr 7, pp 131-142

ABSTRACT: Described are  $\gamma$ -ray emitters, apparatus for flaw detection with  $\gamma$ -rays, methods for plotting gamma-diagrams, and the sensitivity of the method of flaw detection with  $\gamma$ -rays. The method is developed for the utilization of the GUP-Co-0.5-1 installation for  $\gamma$ -ray examination of steel 10-170 mm thick. For small thicknesses of steel (~ 10 mm) it is considered feasible to use  $\text{Co}^{60}$  provided that the focal distance is increased to 40-50 cm and that Pb electrons [electrodes? Transl. Note] are used. 1. Steel---Inspection 2. Gamma rays---Applications 3. Gamma ray analysis---Equipment 4. Cobalt isotopes T.R. (Radioactive)---Performance

Card 1/1

EPSHTEYN, M.M.; KHIL'KO, [Khyl'ko, O.K.]

Effect of  $\alpha$ -pinene on carbohydrate and phosphorus metabolism.  
Ukr. biokhim. zhur. 32 no.5:710-717 '60. (MIRA 14:1)

1. Kafedra biokhimii Kiyevskogo meditsinskogo instituta.  
(PINENE) (CARBOHYDRATE METABOLISM)  
(PHOSPHORUS METABOLISM)

SHAMRAY, Ye.F. [Shamrai, IE.F.]; KHIL'KO, O.K. [Khyl'ko, O.K.]; SAPOTSINSKAYA, Ye.B. [Sapotsins'ka, IE.B.]

Method of quantitative determination of nitrogen in organic compounds and tissues. Ukr. biokhim. zhur. 34 no.3:443-450 '62.

(MIRA 18:5)

1. Kafedra biokhimiï Kiyevskogo meditsinskogo instituta.

KHIL'KO, O.K. [Khyl'ko, O.K.]

Age-related changes in the content of sulfhydryl groups and adenosine-triphosphatase activity of myosin. Ukr. biokhim. zhur. 37 no.1:8-13 '65. (MIRA 18:5)

1. Institut of Gerontology and Experimental Pathology of the Academy of Medical Sciences of the U.S.S.R., Kiev.

L 13012-63

EPF(o)/EWP(j)/EWT(m)/BDS

ASD

Pr-4/Pc-4

RM/WW

ACCESSION NR: AP3002907

S/0289/63/000/001/0136/0140

AUTHOR: Shostakovskiy, M. F.; Sokolov, B. A.; Khil'ko, O. N.; Shergina, N. I. <sup>66</sup><sub>65</sub>

TITLE: The sequence of addition of hydrosilanes to phenylacetylene

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1963, 136-140

TOPIC TAGS: hydrosilane addition reaction, trans-isomer formation, trichlorosilane, methyldichlorosilane, ethyldichlorosilane, methylethyldichlorosilane, triethylsilane

ABSTRACT: This study is an investigation of the addition reactions of one or two hydrosilane molecules to phenylacetylene. The addition reaction of hydrosilanes to an acetylene triple bond is accomplished by means of a catalyst which is 0.1 M  $H \text{ sub } 2 \text{ PtCl sub } 6$ . 6  $H \text{ sub } 2 \text{ O}$  in isopropyl alcohol. The synthesized products containing the double bond may be used to obtain polymers. Some of these products will polymerize if only left to stand. The hydrosilanes investigated in this work were trichlorosilane, methyldichlorosilane, ethyldichlorosilane, methylethyldichlorosilane, and triethylsilane in accordance with the reaction shown in the Enclosure. It was shown that one or two molecules can react with

Card 1/2



L 13012-63

ACCESSION NR: AP3002907

phenylacetylene contrary to the Markov law. When using H sub 2 PtCl sub 6 times  
6 H sub 2 O catalyst, the cis-additive of hydrosilane molecule forms a trans-  
isomer. Orig. art. has: 1 table.

ASSOCIATION: Irkutskiy Insitut Organicheskoy Khimii Sibirskogo Otdeleniya AN SSSR  
(Irkutsk Institute of Organic Chemistry, Siberian Department, AN SSSR)

SUBMITTED: 29Apr62

DATE ACQ: 24Jul63

ENCL: 01

SUB CODE: 00

NO REF SOV: 006

OTHER: 004

Card 2/2

ACCESSION NR: AP4015148

S/0289/63/000/003/0092/0096

AUTHORS: Shostakovskiy, M.F.; Sokolov, B.A.; Khil'ko, O.N.;  
Balezina, G.G.; Alekseyeva, G.M.

TITLE: Addition of silane hydrides to vinyl ethers

SOURCE: AN SSSR. Sib. otd. Izv., no. 11. Ser. Khim. nauk, no. 3,  
1963, 92-96

TOPIC TAGS: silicohydride, silane, silane hydride, addition re-  
action, vinyl ether addition reaction, trichlorosilane ether,  
dichloromethylsilane ether, dichloroethylsilane ether, triethyl-  
silane ether, beta ether, Markownikoff rule, Raman spectrum

ABSTRACT: The addition of trichlorosilane, methyldichlorosilane,  
ethyldichlorosilane, and triethylsilane to vinylisopropyl-, vinyl-  
butyl-, vinylphenyl-, vinyl- o-, m- and p-cresyl ethers were studied.  
The addition of equimolar amounts of silane and vinyl ether was  
effected by heating and using chloroplatinic acid as the catalyst  
(beta-phenoxyethyltriethylsilane was prepared by the Grignard re-

Card 1/2



ACCESSION NR: AP4015148

action). The following new compounds were prepared and characterized: the beta-phenoxyethyl-, the beta-o-cresoxy ethyl, the beta-m-cresoxyethyl, and the beta-p-cresoxyethyl- trichlorosilanes; -dichloromethylsilanes, dichloroethylsilanes, and -triethylsilanes; the beta-butoxyethyl-dichloromethylsilane, dichloroethylsilane and triethylsilane; and the beta-isopropoxyethyldichloroethylsilane. The presence of the beta structure in the products, contrary to Markownikoff's rule, was confirmed by Raman spectra and chemical decomposition. "Spectra were taken by N.I. Golovanov, for which the authors express their appreciation." Orig. art. has: 1 table and 1 equation.

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR (Irkutsk Institute of Organic Chemistry, Siberian branch AN SSSR)

SUBMITTED: 03Aug62

DATE ACQ: 13Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 005

OTHER: 006

Card 2/2

L 32217-65 ENT(m)/EPF(c)/T/ENP(j)/EPR Pc-L/Pr-L/Ps-L RPL WW/GS/RH

ACCESSION NR: AT5002123

8/ 000/64/000/000/0140/0144

AUTHOR: BOBOS, P. A. DE MORAES, O. P. DE MORAES, N. E.

TITLE: The order of addition of hydrosilanes to phenylacetylene

SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 140-144

TOPIC TAGS: silicoorganic compound, heterorganic compound, hydrosilane, phenylacetylene

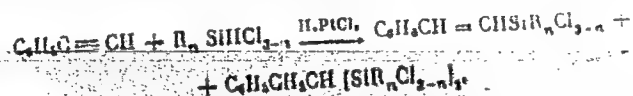
ABSTRACT: The synthesis of  $C_6H_5CH=CHSiCl_3$  (boiling. pt.  $97^\circ C$  at 9 mm Hg),  $C_6H_5CH_2CH(SiCl_3)_2$  (boil. pt.  $162^\circ C$  at 8 mm Hg),  $C_6H_5CH=CHSi(CH_3)Cl_2$  (b.p.  $110^\circ C$  at 4 mm),  $C_6H_5CH_2CH(Si(CH_3)Cl_2)_2$  (1-phenyl-2, 2-bis- (methylchlorosilyl)ethane) (b.p.  $162^\circ C$  at 17 mm),  $C_6H_5CH=CHSi(C_2H_5)Cl_2$  ( $\beta$ -ethyldichlorosilylstyrene, b.p.  $133^\circ C$  at 16 mm),  $C_6H_5CH_2CH(Si(C_2H_5)Cl_2)_2$  (b. p.  $170^\circ C$  at 10 mm),  $C_6H_5CH=CHSi(CH_3)(C_2H_5)Cl$  (b. p.  $130^\circ C$  at 7 mm),  $C_6H_5CH=CHSi(C_2H_5)_2$  ( $\beta$ -triethylsilylstyrene, b. p.  $138^\circ C$  at 10 mm),  $C_6H_5CH_2CH_2Si(CH_3)_2Cl_2$  (b. p.  $86^\circ C$  at 2 mm),  $C_6H_5CH=CHSi(C_2H_5)F_2$  ( $\beta$ -ethyldifluorosilylstyrene, b. p.  $80^\circ C$  at 5 mm),  $C_6H_5CH_2CH_2Si(C_2H_5)F_2$  (b. p.  $110^\circ C$  at 5 mm), and  $C_6H_5CH=CHSiF_3$  (b. p.  $41^\circ C$  at 1 mm)

Card 1/2

L 32217-65

ACCESSION NR: AT5002123

was accomplished, with a yield of 43-85%, by adding one or two molecules of trichloro-, methyl-dichloro-, ethyl-dichloro-, methylethylchloro-, and triethylsilane to phenylacetylene in the presence of 0.1 M chloroplatinic acid, according to the reaction:



where R is CH<sub>3</sub> or C<sub>2</sub>H<sub>5</sub> and n = 0, 1, 2, 3. The hydrosilane molecules were found to add in the cis-position, forming a trans-isomer, contrary to the Markovnikov rule. Hard, vitreous polymers, difficultly soluble in organic solvents, resulted from the addition of one hydrosilane molecule to one phenylacetylene molecule. The recombination spectra, taken with an EIP-51 spectrograph, are supplied for some of the products. Orig. art. has: 1 table and 2 formulas.

ASSOCIATION: none

SUBMITTED: 30Jul64

ENCL: 03

SUB CODE: OC

NO REF SOV: 006

OTHER: 004

Card 2/2

KHIL'KO, Sof'ya

We don't close our eyes. Fab.1 sial. 39 no.1:3 Ja '63.

(MIRA 1642)

1. Zvenevaya kolkhoza "Radzima" Nesvizhskogo rayona.  
(Nesvizh District—Flax)

BALAKINA, L.M.; BULMASOV, A.P.; DUVZHIR, G.; YESKIN, A.S.; KURUSHIN, R.A.; LOGACHEV, N.A.; LUK'YANOV, A.V.; NATSAG-YUM, L.; SOLOMONENKO, V.P., prof.; TRESKOV, A.A.; FLORENSOV, N.A.; KHIL'KO, S.D.; SHMOTOV, A.P.; ARSEN'YEV, A.A., red. i zd-v; DOROKHINA, I.N., tekhn. red.

[Gobi Altai earthquake] Gobi-Altayskoe zemletrasenie. Moskva, Izd-vo Akad. nauk SSSR, 1963. 390 p. (MIRA 16:5)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Vostochno-Sibirskiy geologicheskiy institut. 2. Chlen-korrespondent Akademii nauk SSSR (for Florensov).  
(Gobi Altai--Earthquakes)

KHIL'KO, V., inzhener-polkovnik; USVATOV, A., mayor

How do you train radiotelegraph operators? Voen. vest 43 no.1:95-98  
Ja 64. (MIRA 17:1)



KHIL'KO V.A.

2786. Kolkhoznaya Torgovlya V. sssr. i eye razvitiye na sovremennom ztape. M.,  
1954. 16c. 22cm. (Akad. Obshestv. Nauk Pri Tsk KPSS. Kafedra Polit. Zkonomii)  
220 zhz. B.TS (54-55714)

SO: Knizhnaya Letopis, Vol. 2, 1955

KHIL'KO, V.A. (Leningrad)

Applying Brook's method in the use of muscle tamponades in carotid-cavernous aneurysms. Vop.neirokhir. no.5:30-34 '61.  
(MIRA 14:11)

1. Klinika neyrokhirurgii voyenno-meditsinskoy ordena Lenina  
akademii imeni S.M. Kirova.

(SURGICAL INSTRUMENTS AND APPARATUS)

17(6)

SOV/177-58-9-39/51

AUTHOR: Khil'ko V.M., Senior Lieutenant of the Medical Corps  
TITLE: Practice of Medical Care of Depot Personnel  
PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 9, pp 85-86(USSR)  
ABSTRACT: The author gives some general instructions for the medical care of the personnel of depots and bases, taking into consideration the breaking out of infectious diseases in populated districts.

Card 1/1

KHIL'KO, V.M., kapitan meditsinskoy sluzhby

~~APPROVED FOR RELEASE: 09/17/2001~~

CIA-RDP86-00513R000722020001-

Device for taking sample of air for testing bacterial contamination.

Voen.-med.zhur. no.3:83 Mr '61.

(MIRA 14:7)

(AIR SAMPLING APPARATUS)

KHIL'KO, V.M.

Diagnostic value of the hemagglutination reaction with washings from  
the pharynx of patients with virus influenza. Lab. delo [7] no.4:  
31-Apr '61. (MIRA 14:3)  
(BLOOD-AGGLUTINATION) (INFLUENZA)

KHIL'KO, V.M.

Modification of Rechmenskii's bacterial trap. Lab. delo 10 no.  
5:311-312 '64. (MIRA 17:5)

1. Kafedra mikrobiologii (nachal'nik - prof.A.A.Sinitskiy) Vo-  
yenko-meditsinskoy ordena Lenina akademii im. S.M.Kirova, Lenin-  
grad.

KOMSKAYA, M.S. [Koma'ka, M.S.]; KHIL'KO, V.V.; NICHIPORENKO, S.P.  
[Nychyporenko, S.P.]

Structural-mechanical classification and elasticity of clays.  
Dop. AN URSR no.8:1059-1061 '61. (MIRA 14:9)

1. Institut obshchey i neorganicheskoy khimii AN USSR i  
Ukrainskiy nauchno-issledovatel'skiy institut steklyannoy i  
farforovo-fayansovoy promyshlennosti. Predstavleno akademikom  
AN USSR A.V. Dumanskim. [Dumans'kiy, A.V.]  
(Clay—Analysis)



NICHIPORENKO, S.P.; KHIL'KO, V.V.; KOSTENKO, E.A.

Theoretical principle for the making up of ceramic paste batches.  
Stek. 1 ker. 18 no.10:28-32 0 '61. (MIRA 14:11)  
(Ceramics)

NICHIPORENKO, S.P.; KHIL'KO, V.V.

Structural and mechanical properties of palygorskite pastes as  
influenced by the orientation of the particles. Dokl. AN SSSR  
149 no.6:1377-1379 Ap '63. (MIRA 16:7)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.  
Predstavleno akademikom P.A.Rebinderom.  
(Palygorskite) (Crystallography)

KASHIN, N.V. [deceased]; VORONOV, P.I.; LEVE, R.R.; ISAKOVA, N.Kh.;  
KHIL'KO, Z.L.

Radio interference method for underground prospecting. Nauch..  
trudy MGI no.31:5-59 '60. (MIRA 14:2)  
(Radio in prospecting)

**KHILKOV, V.A.**

Problem of recurrent syphilis. Vest. vener., Moskva no. 4:39 July-Aug 1952.  
(CJML 23:3)

1. Departmental Physician. 2. Of the Clinic for Skin and Venereal Diseases (Head -- V. A. Vedernikov), Arkhangel'sk Medical Institute.

KHILKOV, V.A.

Dynamics of cutaneous galvanic reactions in patients with secondary eruptions. Vest. dermat. i ven. no.5:43-49 '65.

(MIRA 18:11)

1. Kafedra kozhnykh i venericheskikh bolezney Arkhangel'skogo meditsinskogo instituta i kafedra kozhnykh bolezney Leningradskogo instituta usovershenstvovaniya vrachev (rukovoditeli raboty - cheln korrespondent AMN SSSR prof. P.V.Kozhevnikov i prof. V.A.Vedernikov). Submitted September 22, 1964.

VEDERNIKOV, V.A.; KAZANTSEV, Yu.M.; KORNILOV, A.D.; KHILKOV, V.A.

Negative serological reaction in patients with syphilis treated  
with bicillin-1. Vest.derm.i ven. 3/4 no.6:42-43 '60.

(MIRA 13:12)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof.  
V.A. Vedernikov) Arkhangel'skogo meditsinskogo instituta.  
(SYPHILIS) (PENICILLIN)



KHILKOV, V.A.

Functional disorders of the nervous system in patients with  
secondary eruptions (allergids, microbids). Vest. derm. i ven.  
37 no.4:26-32 Ap '63. (MIRA 17:5)

1. Kafedra kozhnykh i venericheskikh bolezney Arkhangel'skogo  
meditsinskogo instituta i kafedra kozhnykh bolezney Leningrad'skogo  
instituta usovershenstvovaniya vrachev (rukovoditeli raboty -  
chlen korrespondent AMN SSSR prof. P.V. Kozhevnikov i prof. V.A.  
Vedernikov).

KHILKOV, V. A., ordinator

Chronic trichophytosis in adults in Archangel Province. Vest. dermat. i ven. 34 no.1:24-27 Ja '60. (MIRA 14:12)

1. Iz kafedry kozhnykh i venericheskikh bolezney (zav. - prof. V. A. Vedernikov) Arkhangel'skogo meditsinskogo instituta.

(ARCHANGEL PROVINCE—RINGWORM)

KHILKOVA, Lidiya Stepanovna, ptichnitsa; FLIGEL'MAN, S., red.; ROZHDAYKINA, V.,  
tekhn. red.

[I will raise 6000 ducks] Vyrashchu 6000 utok. Kalinin, Kalininskoe  
knizhnoe izd-vo, 1960. 15 p. (MIRA 14:12)

1. Kolkhoz "Velikiy put'" Sonkovskogo rayona (for Khilkova).  
(Ducks)

KHILKOVA, O. G.

KHILKOVA, O. G. --"Agricultural-Engineering Substantiation of Sorting  
Methods." (Dissertations For Degrees In Science and Engineering  
Defended at USSR Higher Educational Institutions) (29) Min  
Higher Education USSR, Azerbaijan Agricultural Inst, Kirovabad,  
1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

\* For the Degree of Candidate in Agricultural Sciences

FILIPPOV, D.I.; KHARLAMP'YEVA, N.I.; MAKSAKOVA, V.M.; KHILKOVA,  
O.G.; IVANCHENKO, Ye.A.; ZHUKOVSKIY, D.I.; BORDUKOVA, M.V.;  
TAIROVA, V.N., red.

[Growing seed potatoes in the R.S.F.S.R.] Semenovodstvo kar-  
tofelia v RSFSR [By] D.I.Filippov i dr. Moskva, Sel'khoz-  
izdat, 1963. 166 p. (MIRA 17:6)

EX LIBRIS MEDICA Sec 7 Vol 13/8 Pediatrics Aug. 59

1990. THE PECULIARITIES OF THE CLINICAL COURSE OF TUMOURS OF THE POSTERIOR FOSSA IN CHILDREN (Russian text) - Khilkova T. A.

- Zh. NEVROPAT. I PSIKHIAT. 1958, 18/7 (852-857) Tables 4

Report of 125 cases of cerebral tumours in the age of 2-15 yr.; 55 of them were medulloblastomas, 47 astrocytomas and 23 of other types. After the age of 14, the tumours were less frequent. The interval between the appearance of the first symptoms and the diagnosis is shorter than in the adult. In younger children, the evolution of the tumour is more rapid. Headache, as the first sign of illness, occurs more often than in the adult; hypertensive fits are more severe, focal signs rarely occur in the beginning and early spontaneous nystagmus was often observed. In medulloblastomas, decompressive trepanation with biopsy, followed by deep X-ray treatment was found to be the most effective.

Cernáček - Bratislava (VIII, 5, 7)

KLINICKÝ ODEK LEHURNÁRKE NAUČNO - VÝSKUMNÉ SKUP

NEVROLOGICKÉ INSTITUTE IMENI A. L. POLOZAKA.



AKHUNDOV, A.A., kand. med. nauk; BAIROV, G.A., prof.; BOYARINOVA, M.V., kand. med. nauk; BUTIKOVA, N.I., doktor med. nauk; ZOBINA, M.M., kand. med. nauk; IVASHKO, L.M.; KAZANTSEVA, N.D., kand. med. nauk; ZLOTNIKOV, D.M., professor; KUZ'MIN, B.P., kand. med. nauk; OBODAN, N.M., kand. biol. nauk; KHILKOVA, T.A., kand. med. nauk; EPSHTEYN, Grigoriy Yakovlevich, prof.

[Traumatology and restorative surgery in children; selected chapters] *Traumatologiya i vosstanovitel'naya khirurgiya detskogo vozrasta; izbrannye glavy.* Leningrad, Meditsina, 1964. 334 p. (MIRA 17:6)

1. Chlen-korrespondent AMN SSSR (for Bairov).

KHILKOVA, T.A.

Clinical aspects and treatment of astrocytomas of the posterior  
cranial fossa in children. Sbor. trud. Len. nauchn. obshch. nevr.  
i psikh. no.6:50-55 '59. (MIRA 13:12)

1. Iz klinicheskogo otdela (zav. - prof. I.S. Babchin) Leningradskogo  
nevrohirurgicheskogo instituta imeni prof. A.L. Polenova (direktor -  
deystvitel'nyy chlen AMN SSSR prof. V.N. Shamov.  
(~~BRAIN~~ TUMORS)

KHILKOVA, V. A.

LIPSKIY, I. A.; YAKHNIN, G. M.; KHILKOVA, V. A.; ANTIPOVA, V. Ya.

Treatment of gonorrhea with penicillin and autohemotherapy.  
Vest. vener., Moskva no. 2:55-56 Mar-Apr 1952. (CIWL 22:2)

1. Of Arkhangel'sk Oblast Venereal Dispensary.

KHIL'KOVICH, A. S.

5786. Pribor dlya rikhtovki puti. L'vov, 1954. 4s.; i l. chert. 20sm. (MPS SSSR. L'vovskaya zh. d. tekhn. otb. dorogi. dor. dom. tekhniki. DornITO. Sluzhba puti. Obmen proizvod. opytom. inform.-tekhn. Pis'mo No. 14. 500 EKZ. B. ts. -Sost. Ukazan v kontse teksta.-(54-15648zh) 625.17.0025

SO: Knizhnaya, Letopis, Vol. 1, 1955

KHIL'KOVSKAYA, YE. P.

PLATE 1 BOOK CITATION

SOV/916

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhanicheskogo transporta  
 Topograf gosizobrazovatel'nogo i transportnogo voprosoproskhi, aprofily statoy  
 (Problems in the Science of Locomotive Building and Mechanical Engineering in  
 Transportation) Collection of Articles Moscow, Transportnaya literatura, 1959. 216 p.  
 (1st issue, 1959. 1st) 1,000 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhanicheskogo  
 transporta.

Ed.: (Title page) Ye. P. Khil'kovskaya, Candidate of Technical Sciences, and A. F.  
 Khil'kovskiy, Candidate of Technical Sciences; Ed.: (Title page) I. L. Pechenkin;  
 Tech. Ed.: P. A. Dolgov.

REMARK: This book is intended for engineering and technical personnel.

CONTENTS: The book consists of 13 articles on the results of theoretical investiga-  
 tion of the working conditions of the locomotive fuel combustion, and on "powerful" and  
 laboratory investigations of the working conditions of the locomotive fuel combustion  
 at various speeds of locomotive fuel combustion engines and problems of fuel  
 economy in locomotive and stationary units are discussed. No personalities are  
 mentioned. Abstracts accompany some of the articles.

Author: Ye. P. Khil'kovskaya, Candidate of Technical Sciences. From Division  
 of Locomotive Engineering.

Translator: A. L. Gerasimov, Candidate of Technical Sciences. Editing: Pechenkin  
 of Locomotive Engineering, Engineering Editor: Dolgov.

Ed.: (Title page) Ye. P. Khil'kovskaya, Candidate of Technical Sciences, and A. F.  
 Khil'kovskiy, Candidate of Technical Sciences; Ed.: (Title page) I. L. Pechenkin;  
 Technical Editor: P. A. Dolgov.

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KHIL'MI, G. F.

PA 17/49T82

USSR/Mathematics - Mechanics

Jul/Aug 48

Mathematics - Mathematics, Applied

"Zakhvat's Problem in Connection With the Three-  
Body Problem," O. Yu. Shmidt, G. F. Khil'mi, 3 pp

"Uspekhi Matemat Nauk" Vol III, No 4 (26)

Discusses the many faulty assumptions previously  
made in the study of planetary motions, for  
example: separating masses into solar and planetary,  
with incorrect moments of inertia.

17/49T82



Hil'mi, G. F. On the possibility of capture in the problem of three bodies. Doklady Akad. Nauk SSSR (N.S.) 62, 39-42 (1948). (Russian)

Smidt, O. Yu. The theory of capture and statistical laws of the distribution of the orbits of double stars. Doklady Akad. Nauk SSSR (N.S.) 62, 43-46 (1948). (Russian)

Smidt, O. Yu., and Hil'mi, G. F. The problem of capture in the three body problem. Izvestiya Matem. Nauk (N.S.) 3, no. 4(26), 157-159 (1948). (Russian)

A solution of the three-body problem can be said to represent a capture if two of the bodies separate to infinite distance in the past but remain within a constant distance in the future. This definition was replaced by Smidt by the following one. The solution represents capture if at a time  $t_0$  the three pairs of relative motions (regarded as initial conditions for the two-body problem) are hyperbolic and the distances all exceed a constant  $R_1$ , while at a later time  $t_1$  two of the bodies are within distance  $R_2 < R_1$  and have elliptic motions, while the third body is at a distance greater than  $R_1$  and has a hyperbolic motion. The constants  $R_1$  and  $R_2$  are interpreted respectively as a mean stellar distance in the galaxy and a mean diameter of a double star. In a previous paper [Doklady Akad. Nauk SSSR (N.S.) 58, 213-216 (1947)] Smidt gave a numerical example to show the possibility of such capture. Hil'mi generalizes this by

requiring (I) existence of a time  $t_1$  such that  $r' < -Br$ , where  $r$  is the minimum distance between the bodies,  $r'$  is the minimum of the three radial velocities, and  $B$  is a certain function of the masses, and (II) of a time  $t_2$  such that for some  $R$  and  $\epsilon < R$  one has  $2r < 2R < \rho$ ,  $\rho' > 0$  and  $\rho' - A\rho^{-1} > C$ . Here  $A$  and  $C$  are certain functions of the masses,  $R$ ,  $\epsilon$  and  $h$  (the energy constant), while  $\rho$  is the distance between the farthest body and the center of mass of the two close ones, and  $\rho' = d\rho/dt$ . Hil'mi states the following theorems. (1) If condition (I) holds, then all three distances become infinite as  $t$  approaches  $-\infty$ . (2) If  $h > 0$  and (II) holds, then  $\rho$  increases steadily to  $\infty$  as  $t$  increases, while  $r \leq R$  for  $t > t_2$ . (3) Smidt's example satisfies (I) and (II), hence illustrates capture in terms of Hil'mi's definition. (4) The measure of the set of initial conditions leading to capture is not zero. The proof of the last theorem is given in a few lines.

The results stated are given in the first of the three papers, and their astronomical significance for double stars and for the solar system is discussed briefly in the second and third papers. The third paper also contains a discussion of the probability distribution of the semi-axis  $a$  for double stars. On the basis of rough approximations and simple analysis

it is concluded that the probability density should be of the form  $(a + \rho)^{-2}$  for large  $a$ , where  $\rho$  is a constant.

W. Kaplan (Zurich)

Source: Mathematical Reviews,

Vol 10 No. 7

Hil'mi, G. F.

Hil'mi, G. F. The problem of a bodies in celestial mechanics and cosmogony 18

The paper is concerned with two problems: the mechanics of the motion of a body in a gravitational field and the problem of the stability of the motion of a body in a gravitational field.

discussed and their cosmogony is discussed. No results.

Ann. Math. (N.S.) 58, 211-216 (1953).

Smidt and Hil'mi, Uspehi Matem. Nauk N 5, 3, 104-107, 157-159 (1948); these Rev. 10, 487.

Mathematical Reviews,

Vol. 12, No. 1

KHIL'MI, G. F.

166T35

USSR/Hydrology - Rainfall  
Percolation

Sep/Oct 50

"Retention of Rainfall by Forests," G. F.  
Khil'mi, Geophys Inst, Acad Sci USSR

"Iz Ak Nauk SSSR, Ser Geograf i Geofiz" Vol  
XIV, No 5, pp 448-454

Proposes method for calculating amount of rain-  
fall which can be retained by forests on basis  
of empirically determined parameters which char-  
acterize specific water capacity and form of  
tops of various trees. Gives example of using  
this method for spruce trees and compares

166T35

USSR/Hydrology - Rainfall (Contd) Sep/Oct 50

calculations with data of direct pluviometric  
observations in forest. Submitted 26 Jan 50  
by Acad O. Yu. Shmidt.

166T35

KHIL MI, G. F.

3

Hilbert, G. F. The virial theorem in celestial mechanics.

for EMMAN

Source: Mathematical Reviews, 1950 Vol 11 No. 6

[illegible]

Hill, G. F. Dissipative motions in a system of  
bodies attracting according to Newton's law

(b)  $P_1, P_2, \dots, P_{n-1}$ . Let  $m_i$  be the mass of  $P_i$  and  $r_{ij}$  the

$$M_i' = \sum_{j=1}^n m_i m_j, \quad M_i'' = \min \{m_i m_j / (m_i + m_j)\}.$$

$$M_i = M_i' / M_i'', \quad i = 0, 1, \dots, k-1,$$

[illegible]

*I. Buchan* (Cambridge, Mass.)

0: Mathematical Reviews,

7-1 : 1

KHIL'MI, G. F.

"Dissipative Motions in a System of  $n$  Bodies which Are Attracted According to Newton's Law, DAN, Vol. LXXII, No. 5, pp 847-150, 1950.

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KHIL'MI, G. F.

176T2

USSR/Astronomy - Stellar Clusters  
Stellar Capture

11 Apr 50

"Dissipative Motions in a System of  $n$  Bodies Attracted According to Newton's Law," G. F. Khil'mi, Geophys Inst, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXI, No 5, pp 847-850

Khil'mi generalizes 3-body problem to  $n$  bodies and discusses in particular his investigations into phenomena of "stellar dissipation" in connection with O. Yu. Schmidt's theory of stellar capture. He establishes several theorems and criteria governing dispersal of stars. Submitted 1 Feb 50 by Acad O. Yu. Schmidt.

176T2

NIKOLAI, G. F.

Science

Problem of bodies in celestial mechanics and cosmogony. Moskva, AN, SSSR, 1951.

9. Monthly List of Russian Accessions, Library of Congress, October 1951, Uncl.

2

the bodies with inertia  $S$  and  $S'$  respectively. In the classical case, the bodies are assumed to be rigid and the total mass  $m$  is conserved. The angular momentum of the system is denoted by  $L$  and the total energy by  $E$ . The inequality  $0 \leq L^2/(2E - \sum m_i \dot{r}_i^2) \leq 1$  is then established. This result is applied to a qualitative analysis of a system of particles which collide inelastically. The total energy decreases, as a result of collisions, either coalesce or split up. The latter case corresponds to a decrease in the total energy. The inequality implies that a continuous decrease in  $L$  is accompanied by a decrease in  $E$ . This would contradict the constancy of  $L$ , unless the momentum of the individual particles is conserved. The loss in total energy is due to the behavior of the light wave is described by the Born-Infeld electrodynamics and the results applied. The non-isotropic nature of the velocity of light is then discussed.

Reviews,  
Vol 13 No. 8

KHIL'MI, G. F.

184T3

USSR/Astronomy - Stellar Capture

1 Jun 51

"One Criterion Governing the Nonrupturability of Capture in the Three-Body Problem," G. F. Khil'mi, Geophys Inst, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXVIII, No 4, pp 653-656

Establishes inequalities among radiuses, masses, distances, densities, energies, etc., that det subject nonrupturability. Submitted 12 Apr 51 by Acad O. Yu Shmidt.

184T3

Hil'mi, G. P. On completely unstable systems of  $n$  gravitating bodies. Doklady Akad. Nauk SSSR (N.S.) 79, 419-422 (1951) (Russian)

In the classical  $n$ -body problem, let  $r_{ij}$  denote the distance between particles  $P_i$  and  $P_j$  at time  $t$ , let

$$r = \min(r_{ij}), \quad s(t) = \min(r_{ij}), \quad m_i = \text{mass of } P_i, \\ M = \sum m_i, \quad M' = \min m_i m_j / (m_i + m_j), \quad M'' = M' / M''.$$

Units are chosen so that the constant of gravitation is 1. It is then proved that if  $s(0) > 0$  and  $s'(0)q(0) > 8M$ , then  $q(t) \rightarrow \infty$  as  $t \rightarrow \infty$ . This criterion for instability is shown to be applicable, by reversal of the time scale, to the problem of "capture" in the three-body problem [cf. the preceding paper]. W. Kaplan (Ann Arbor, Mich.)

*Smu*  
*22*

Source: Mathematical Reviews,

Vol 13 No. 5

KHILMI, G. F.

Earth

Recent information on the origin and evolution of the earth. Geog. v shkole no. 3, 1952

9. Monthly List of Russian Accessions, Library of Congress, September 195<sup>X</sup><sub>2</sub>, Uncl.

KHILMI, G.

"New Theory on the Origin of the Earth and Planets" by G. Khilmi, Master of  
Physics and Mathematics, Institute of Geography of the USSR Academy of Sciences

Full article in English in World Student News, Vol 6, No 8, 1952, p.12, Unclassified

KHIL'MI, G. F.

Sketches of Russian astronomers ("Leading Russian astronomers." Yu. G. Perel'.  
Reviewed by G. F. Khil'mi). Nauka i zhizn'19 no.4, '52.

9. Monthly List of Russian Accessions, Library of Congress, July 195<sup>X</sup><sub>2</sub>, Uncl.



Khil'mi, G. F.

USSR/Astronomy

Card 1/1

Author : Khil'mi, G. F., Cand. in Physico-Mathematical Sciences  
 Title : Origin and early evolution of the early evolution of the earth  
 Periodical : Nauka i Zhizn' 21/2, 20-22, Feb/1954

Abstract : The author gives the universally accepted ideas of the structure of the solar system. The similarity of the movements of the planets points to a common origin. The theory of the origin of the solar system from scattered bits, dust and gas is the logical one. This matter did not move in a plane. This resulted in collisions and grouping of matter into fewer units with change in energy. The author has a theory as to how the planets came to be divided into two groups. Drawings.

Institution : .....

Submitted : .....

KHIL'MI, G.F.

Effect of the thickness of forest litter on the number of sprouts  
of pine and spruce and on the competitive relationship among them.  
Dokl.AN SSSR 95 no.2:395-398 Mr '54.  
(MLRA 7:3)  
(Spruce) (Pine)

KHIL'MI, Genrikh Frantsevich, kandidat fizike-matematicheskikh nauk;  
SAMSONENKO, L.V., redaktor; USPENSKAYA, N.V., redaktor;  
DMITRIYEVA, R.V., tekhnicheskii redaktor.

[Two hundred years of scientific cosmogony] Dvesti let nauchnoi  
kosmogenii. Moskva, Izd-vo "Znanie," 1955. 30 p. (Vsesoiuznoe  
obshchestvo po rasprostraneniui politicheskikh i nauchnykh  
znanii. Ser.3, no.25) (MLRA 8:9)  
(Cosmogony)

KHIL'MI, G.F.; DZERDZHEVSKIY, B.L., professor, otvetstvennyy redaktor;  
URANOV, A.A., professor, otvetstvennyy redaktor; STAROSTINKOVA,  
M.M., redaktor izdatel'stva; MAKUNI, Ye.V., tekhnicheskii redaktor

[Theoretical biogeophysics of forests] Teoreticheskaya biogeofizika  
lesa. Moskva, Izd-vo Akad. nauk SSSR, 1957. 204 p. (MIRA 10:8)  
(Forests and forestry)

KHIL'MI, G. F.

"Information Theory and Animal Ecology," Voprosy filosofii [Problems of Philosophy], 1957, No. 4, Pages 168 - 172.

KHIL'MI, G.F., (Moskva)

Academician Otto IUL'evich Shmidt; obituary. Fiz. v shkole  
17 no.1:28-31 Ja-F '57. (MLRA 10:2)

(Shmidt, Otto IUL'evich, 1891-1956)

GENRIKH FRANTSEVICH

PHASE I BOOK EXPLOITATION

489

Khil'mi, Genrikh Frantsevich

Kachestvennyye metody v probleme n tel (Qualitative Methods in Problems of n Bodies) Moscow, Izd-vo AN SSSR, 1958. 121 p. 3,500 copies printed.

Sponsoring agency: Akademiya nauk SSSR. Institut fiziki zemli.

Resp. Ed.: Novikov, P.S., Corresponding Member of the U.S.S.R. Academy of Sciences; Ed. of Publishing House: Gurov, K.P.; Tech. Ed.: Kostyukovskaya, R.L.

PURPOSE: This book is intended for mathematicians interested in the problem of n bodies.

COVERAGE: The author presents some methods of qualitative analysis in the problem of n bodies, and certain results obtained using these methods. The general equations and integrals of the n bodies problem are given and the simplest theorems derived by

Card 1/4

Qualitative Methods in Problems of n Bodies

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722020001-7

Jacobi concerning the final motions of n bodies are presented. The possibility of the application of the methods of dimensional analysis to qualitative studies of the problem of n bodies is analyzed. Certain inequalities are derived, on the basis of which the analytical form of the criterion, with an unknown factor concerning final motions in the problem of n bodies, is given. The method of continuous induction proposed by the author is defined. Certain theorems are proved which are applied to the qualitative analysis of final motions. Sufficient criteria are given concerning the realization of certain types of final motions in the form of limitations laid upon the initial values of the parameters of the gravitational system of n bodies. The method of invariant measure based on phase interpretation of mechanical systems is given. The concept is introduced of a phase  $f(p,t)$  as a point in v-dimensional Euclidean Space  $E^v$ , called phase space. By applying the method of invariant measure, from the motion of phase points in multidimensional space conclusions of a general character are drawn about the motion of particles in three-dimensional space. General theorems concerning the motion of n gravitational bodies are proved by the method of invariant measure. The author attempts to analyze certain cases of the evolution of a system of gravitational bodies on the basis of celestial mechanics. The transition of the system

Card 2/4

Qualitative Methods in Problems of n Bodies

489

Qualitative Methods in Problems of $n$ Bodies	489
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Ch. 4. Method of Invariant Measure	68
Ch. 5. Analysis of Certain Cases of Evolution of Systems of Gravitational Bodies	105
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AVAILABLE: Library of Congress

Card 4/4

LK/ad  
8-21-58



SHMIDT, Otto Yul'yevich, akademik [deceased]; KUROSH, A.G., doktor fiz.-matem. nauk, otv.red.toma; GRIGOR'YEV, A.A., akademik, red.; DELONE, B.N., red.; KALASHNIKOV, A.G., doktor fiz.-matem.nauk, red.; KOZLOVSKAYA, S.V., red.; LEBEDINSKIY, A.I., doktor fiz.-matem.nauk, red.; LEVIN, B.Yu., doktor fiz.-matem.nauk, red.; MAL'TSEV, A.I., red.; ~~KHIL'MI.~~ G.F., doktor fiz.-matem.nauk, red.; SHEVELEV, M.I., general-leytenant, red.; POLENOVA, T.P., tekhn.red.

[Selected works; mathematics] Izbrannye trudy; matematika. Moskva, Izd-vo Akad.nauk SSSR, 1959. 315 p. (MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Delone, Mal'tsev).  
(Groups, Theory of)

KOGAN, Ya.B., red.-sostavitel'; ALEKSANDROV, akademik, otv.red.; KALASHNIKOV, A.G., doktor fiz.-mat.nauk, red.; GRIGOR'YEV, A.A., akademik, red.; DELONE, B.N., red.; KOZLOVSKAYA, S.V., red.; KUROSH, A.G., doktor fiz.-mat.nauk, red.; LEBEDINSKIY, A.I., doktor fiz.-mat.nauk, red.; LEVIN, B.Yu., doktor fiz.-mat.nauk, red.; MAL'TSEV, A.I., akademik, red.; KHIL'MI, G.F., doktor fiz.-mat.nauk, red.; SHEVKELEV, M.I., geroy Sovetskogo Soyuza, red.; PROKOF'YEVA, N.B., red.izd-va; POLENOVA, T.P., tekhn.red.

[Otto IUL'evich Shmidt; his life and works. A collection devoted to a hero of the Soviet Union, Academician Otto IUL'evich Shmidt, 1891-1956] Otto IUL'evich Shmidt; zhizn' i deiatel'nost'. Sbornik, posviashchennyi geroiu Sovetskogo Soyuza akademiku Otto IUL'evichu Shmidt, 1891-1956. Moskva, 1959. 469 p. (MIRA 12:12)

1. Akademiya nauk SSSR. 2. Chlen-korrespondent AN SSSR (for Delone). (Shmidt, Otto IUL'evich, 1891-1956)

SHMIDT, Otto Yul'yevich [deceased]; LEBEDINSKIY, A.I., doktor fiz.-matem. nauk, otv.red.toma; LEVIN, B.Yu., doktor fiz.-matem.nauk, otv.red.toma; KHIL'MI, G.F., doktor fiz.-matem.nauk, otv.red.toma; KALASHNIKOV, A.G., doktor fiz.-matem.nauk, red.; GRIGOR'YEV, A.A., akademik, red.; DELONE, B.N., red.; KOZLOVSKAYA, S.V., red.; KUROSH, A.G., doktor fiz.-matem.nauk, red.; MAL'TSEV, A.I., akademik, red.; SHEVELEV, M.I., general-leytenant, Geroy Sovetskogo Soyuza, red.; NOVICHKOVA, N.D., tekhn.red.; KASHINA, P.S., tekhn.red.

[Selected works; geophysics and cosmogony] Izbrannye trudy; geofizika i kosmogoniia. Moskva, Izd-vo Akad.nauk SSSR, 1960. 209 p. (MIRA 14:1)

(Cosmogony) (Geophysics)  
(Schmidt, Otto Yul'yevich, 1891-1956)

SHMIDT, Otto Yul'yevich, akademik [deceased, 1891-1956]; GRIGOR'YEV, A.A., akademik, otv.red.toma; SHEVKELEV, M.I., general-leytenant, Geroy Sovetskogo Soyusa, otv.red.toma; DELONE, B.N., red.; KALASHNIKOV, A.G., doktor fiz.-matem.nauk, red.; KOZLOVSKAYA, S.V., red.; KUROSH, A.G., doktor fiz.-matem.nauk, red.; LEHEDINSKIY, A.I., doktor fiz.-matem.nauk, red.; LEVIN, B.Yu., doktor fiz.-matem.nauk, red.; MAL'TSEV, A.I., akademik, red.; KHIL'MI, G.F., doktor fiz.-matem.nauk, red.; MEYEROVICH, O.V., red., izd-vo; KASHINA, P.S., tekhn.red.

[Selected geographical works] Izbrannye trudy; geograficheskie raboty. Moskva, Izd-vo Akad.nauk SSSR, 1960. 212 p.

(MIRA 13:11)

1. Chlen-korrespondent AN SSSR (for Delone).  
(Schmidt, Otto IUL'yevich, 1891-1956)  
(Arctic regions)

KHILO, A.I.

Accelerated growth of snowberries. Biul. Glav. bot. sada  
no.40:114 '61. (MIRA 14:10)

1. Botanicheskiy sad L'vovskogo gosudarstvennogo universiteta  
imeni Iv. Franko.  
(Berries)

LOZOVY, Yu.I., kand.tekhn.nauk; KHILO, Ye.R., inzh.

Strengthening reinforced concrete beams of multispans roofs of industrial buildings. Stroi.konstr. no.2:77-8/, '65.

(MIRA 18:12)

1. L'vovskiy politekhnicheskoy institut (for Khilo).

SLIPCHENKO, P.S., glav. red.; KUCHERENKO, K.R., red.; FILONENKO, K.I., red.; LESNAYA, A.A., red.; ABYZOV, A.G., red.; BUDNIKOV, M.S., red.; VETROV, Yu.A., red.; GLADKIY, V.I., red.; GOLOSOV, V.A., red.; IZMAYLOV, V.G., red.; KANYUKA, N.S., red.; KAPOV, E.A., red.; KLINDUKH, A.M., red.; KUSHNAREV, N.Ye., red.; LUYK, A.I., kand. tekhn. nauk, red.; NEMENKO, L.A., red.; RYBAL'SKIY, V.I., red.; SITNIK, I.P., red.; FEDOSENKO, N.M., red.; FILAKHTOV, A.L., kand. tekhn. nauk, red.; KHILOBOCHENKO, K.S., red.; VORONKOVA, L.V., red.; KIYANICHENKO, N.S., red.

[Construction industry: technology and mechanization of the construction industry; the economics and organization of construction] Stroitel'noe proizvodstvo: tekhnologiya i mekhanizatsiya stroitel'nogo proizvodstva; ekonomika i organizatsiya stroitel'stva. Kiev, Budivelnik, 1965. 180 p.

(MIRA 18:4)

1. Nauchno-issledovatel'skiy institut stroitel'nogo proizvodstva. 2. Nauchno-issledovatel'skiy institut stroitel'nogo proizvodstva (for Luyk, Filakhtov).

1. KHILOBOCHENKO, L. S., Eng.
  2. USSR (600)
  4. Ukraine--Hydroelectric Power Stations
  7. Technical and economic indices for small hydroelectric stations in the Ukrainian SSR, Trudy Inst. tepl. An URSR, No. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.



KHILBOCHENKO, L.S., inzhener.

Using local power resources for agricultural electrification in the  
Ukrainian S.S.R. Trudy Inst.tepl. AN USSR no.9:79-87 '53.  
(Ukraine--Rural electrification) (MLRA 8:6)

KHILOBOSHENKO, L.

112-1-360

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 1, p. 60 (USSR)

AUTHOR: Khiloboshenko, L.

TITLE: Construction of Rural Hydroelectric Power Stations in the Ukraine  
(Stroitel'stvo sel'skikh gidroelektrostantsiy na Ukraine)

PERIODICAL: Sel'skoye str-vo, 1955, Nr 9, pp. 18-20, Sil's'ke budivnitstvo, 1955, Nr 9, pp. 18-20

ABSTRACT: In postwar years several hundred rural hydroelectric power stations with a total capacity of about 55 Mw were built in the Ukrainian SSR. In 1955, 63 rural hydroelectric power stations were under construction with a total capacity of 27 Mw. Unlike the earlier-built low capacity stations, starting with 1949, the construction of more powerful inter-collective and state rural hydroelectric power stations with a capacity of over 100 kw each has developed on a large scale. The cost of construction of the small hydroelectric power stations is from 8000 to 9000 rubles per one installed kw. The electric energy obtained from the high-power hydroelectric power stations costs 2 to 3 times less than that from the low-power ones. A composite table of data of costs of construction and of material outlay for construction of some rural stations is presented. Ways of reducing the cost of building hydroelectric power stations are explained: the application of new designs, efficient layout of the installations, and the

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Construction of Rural Hydroelectric Power Stations in the Ukraine (Cont.)

utilization of local building materials. A description and drafts of certain improved types of spillway dams (with or without gates on the crest of the dam) are given: vacuum type dams (the consumption of concrete is reduced by 10 to 15 per cent); spillway rock-fill dams for weak soils (the expenditure of concrete is reduced by 25 to 30 per cent); spillway dams of the multiple-arch type (the volume of concrete is reduced by 30 per cent). According to data of the Ukrainian branch of the Giprosel'-elektro (State Institute for the Planning of Rural Electrification) the construction in the Ukrainian SSR of over 220 rural hydroelectric power stations with a total capacity of 269 Mw is planned for the immediate future. The cost of their construction is estimated at 1.7 billion rubles.

Yu. M. S.

Card 2/2

1 KHILOP HENKO, L.S., inzh.

Water resources of Vietnam. Nauka i zhyttia 8 no.3:52-54  
Mr '58. (MIRA 12:9)  
(Vietnam, North--Water resources development)

KHILOBOCHENKO, L. S.

8(6);14(6)

PHASE I BOOK EXPLOITATION

SOV/2961

Podhorinov, Anatoliy Leonidovich, and Leonid Samsonovich Khilobochenko

Hydroenergetychno vykorystannya malykh richok Ukrayiny (Water Power Utilization of Small Rivers of the Ukraine) Kyiv, Vyd-vo AN URSR, 1959. 193 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrayins'koyi RSR. Rada po vyvchennyu produktyvnykh syl URSR.

Resp. Ed. of Publishing House: O. M. Pyechkovs'ka; Tech. Ed.: I. D. Mil'okhin; Ed.: I. L. Rozovs'kyy, Candidate of Technical Sciences.

PURPOSE: The book is intended for hydraulic and power engineers and other specialists concerned with the erection and operation of small hydroelectric stations for rural use. It will be of use to students studying hydraulic and power engineering.

COVERAGE: This book reviews the latest practices in design and operation of small hydroelectric power stations serving the rural economy, with particular emphasis upon conditions in the

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Water Power Utilization (Cont.) SOV/2961

Ukrainian SSR. General principles governing the selection of construction site, the actual building of the station and its components, and, finally, the methods of operation and output indicators are described and analyzed. The problem of future utilization of streams and rivulets for additional power generation is discussed. Of particular interest are descriptions of innovations introduced in the construction of dams. There are 62 Soviet references.

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KUDIN, Sergey Nikolayevich [Kudin, S.M.]; PODGORINOV, Anatoliy Leonidovich  
[Podhorinov, A.L.]; KHILOBOCHENKO, Leonid Samsonovich;  
POLTORATSKAYA, Ye. [Poltorats'ka, E.], red.; VOLOSHCHENKO, Z., red.;  
NARINSKAYA, A. [Narins'ka, A.], tekhn.red.

[Small hydroelectric power stations of the Ukrainian S.S.R.] Mali  
hidroelektrostantsii URSR. Kyiv, Derzh.vyd-vo lit-ry z budivnytstva  
i arkhitekt. URSR, 1960. 158 p. (MIRA 14:3)  
(Ukraine--Hydroelectric power stations)



GAVRILOV, V.D. [Havrylov, V.D.]; ~~ХИЛОБОЧЕНКО, Л.С.~~

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the Ukraine. Har. s ist. tekhn. no.6:23-39 '60. (MIRA 13:11)  
(Ukraine--Water resources development).

< KHILOBOCHENKO, L.S., inzh.

In the country of the thousands of lakes. Znan. to pratsia  
no. 2;16-17 F '61.

(MIRA 14:5)

(Finland--Views)

SOV/124-58-3-3340

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3 p 112 (USSR)

AUTHORS: Khilobok, G. K., Khomenko, V. I.

TITLE: Investigation of Thin-walled Beams (K voprosu issledovaniya tonkostennykh sterzhney)

PERIODICAL: Nauchn. zap. Poltavsk. in-t inzh. s.-kh. str-va, 1956, Nr 3, pp 133-147

ABSTRACT: A brief summary of the development of restrained-torsion theory of open-profile thin-walled beams is given. A description of two devices for determination of center of flexure is also given.

K. F. Kovalov

Card 1/1

REF ID: A664

COUNTRY : USSR

CATEGORY : Human and Animal Physiology, Pharmacology

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722020001-7

REF. JOUR. : RZhMol., No. 5 1959, No. 22609

AUTHOR : Chepinoga, O.; Khilobok, I.

\* INST. : --

TITLE : Peculiarities of the Nucleoprotein Complexes in the Rabbit Lung after Sublethal Roentgen Irradiation.

ORIG. PUB. : Ukr. biokhim. zh., 1958, 30, No. 2, 200--211

ABSTRACT : An increase in the extractability of DNA from nucleoprotein complexes of pulmonary tissue was detected 30 minutes and 2 hours after total irradiation with an X-ray dose of 600 r. Two hours and, especially, 8 days after irradiation, an increase was seen in the amount of RNA in whole lung tissue, a finding which was apparently associated with increased synthesis of RNA during restitution. The increase in the protein content of whole lung tissue apparently results from the transfer of protein elements of the blood into the

Card:

1/2

T-123

\* Institut Mekhan AN URSS, Kiev

CHEPINOGA, O.P. [Chepynoha, O.P.]; NOVIKOV, B.G. [Novykov, B.H.];  
LYUBARSKAYA, M.A. [Liubars'ka, M.O.]; KHILOBOK, I.Yu.

Some characteristics of desoxyribonucleic acids from erythrocytes of ducks of various breeds under normal conditions and following reciprocal treatments with desoxyribonucleic acid preparations. Ukr.biokhim.zhur. 32 no.3:368-380 '60.

(MIRA 13:6)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiev and the Experimental Biology Department of Kiev State University.

(DESOXYRIBONUCLEIC ACID)

(HEREDITY)

KHILOBOK, I.Yu. [Khylobok, I.IU.]

Age-related changes in some properties of DNA of the intestinal  
mucous membrane of white rats. Ukr. biokhim. zhur. 37 no.1:43-  
50 '65. (MIRA 18:5)

1. Institute of Gerontology and Experimental Pathology of the Academy  
of Medical Sciences of the U.S.S.R., Kiev.

KHILOBOK, M.P., uchitel'

Work of a club of young chemists. Khim.v shkole 15 no.1:90  
Ja-F '60. (MIRA 13:5)

1. Srednyaya shkola No. 5 Uch-Kurganskogo rayona, Uzbekskoy SSR.  
(Chemistry--Societies, etc.)

KHILOBOK, M.P., uchitel'

Pupil observations of facts explained by the theory of the phasic development of plants. Biol.v shkole no.2:88-89 Mr-Apr '60.  
(MIRA 13:8)

1. Srednyaya shkola No.5 Uch-Kurganskogo rayona, Namanganskoy oblasti, Uzbekskoy SSR.  
(Growth (Plants))

RAZORENOV, Vadim-Igor' Fedorovich; EYZLER, Pavel Il'ich;  
KHILOBOK, Vitaliy Gavrilovich; GRIGOR'YEV, V.A., red.

[New method and instruments for testing cohesive soils  
for compactibility] Novyi metod i pribory dlia ispytani  
sviaznykh gr. tov na uplotniaemost'. Leningrad, 1964.  
27 p. (MIRA 17:9)



KHILOV, K.L.

[Selected problems in the clinical treatment of gunshot wounds of laryngological organs] Izbrannye voprosy kliniki ognestrelnykh povrezhdenii lor-organov. Leningrad, 1946. 122 p.

(MLRA 6:7)

(Throat--Wounds and injuries)

KHILOV, K.L.

Cerebral cortex and vestibulosomatic reflexes. Vest.otorinolary.  
13 no.1:6-15 Jan-Feb 51. (CML 20:5)

1. Of the Department for Diseases of the Ear, Throat, and Nose  
(Head--Honored Worker in Sciences Prof.K.L.Khilov), Leningrad Sa-  
nitary Hygienic Institute (Director--Prof.D.A.Zhdanov, Correspon-  
ding Member of the Academy of Medical Sciences USSR).

KHILOV, K.L.

[Cerebral cortex in the function of the vestibular analyser] Kora golovno-go mozga v funktsii vestibuliarnogo analizatora. Moskva, Gos. Izd. Med. Literaturny, 1952. 84 p. (MLRA 6:5)  
(PsA 28 no.1/2:386 '54)

1. KHILOV, K. L., Prof.
2. USSR (600)
4. Otosclerosis
7. Fenestration in otosclerosis. Vest. oto-rin., 14 no.6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953.  
Unclassified.